Panasonic

ideas for life

2006

FLAT PANEL DISPLAY

DIGITAL NETWORKING

VIERA

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Continuous Evolution: The VIERA Mission.

This year VIERA has evolved even further, pushing the limits of design and technology,
redefining the concepts of performance and value.
VIERA. For those who dare to go beyond.

A whole new VISUAL ERA. VIERA

VIERA 2006 Concept

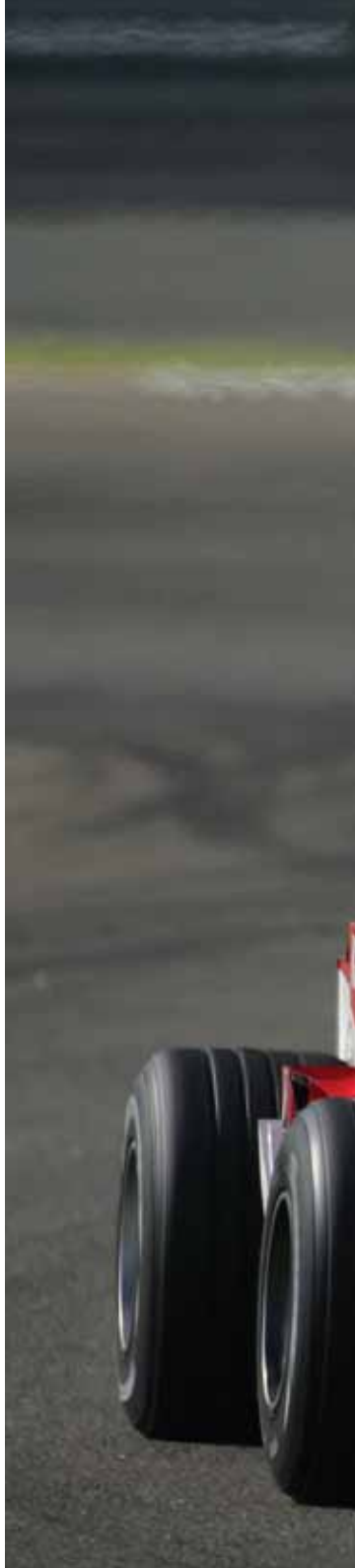
VIERA - ideal for sports

Australians love sport, and we love watching it on a big screen. No matter what sport you're a fan of, be it Formula 1, Rugby Union, AFL or soccer, detail in fast moving objects is always important.
Panasonic Plasmas do not suffer from the blur or lag that affect some big screens and produce "trails" that take away from the viewing experience. Panasonic Plasma TVs have a virtually instantaneous response time that ensures clear viewing for fast moving action.
This means that you can follow your team's performance in the comfort of your home with blur-free images and outstanding picture quality. Viera Plasma – Built for Speed.

And, ideal for movies

In scenes that are deep black, it is the subtle expressions of the actors and the moodiness of the scene that captivate the viewer. VIERA renders each image in clear, sharp detail and with a depth that draws us in to the picture.

In movie productions, huge sums of money are spent and meticulous care is taken to make the sets, lighting and other visual elements as compelling as possible. Only a television with the remarkable picture performance of VIERA is able to reproduce these carefully crafted images as the director envisioned them.
The same superb performance that allows VIERA to unleash all the emotion and beauty of a movie also makes VIERA the best choice for viewing other types of content.

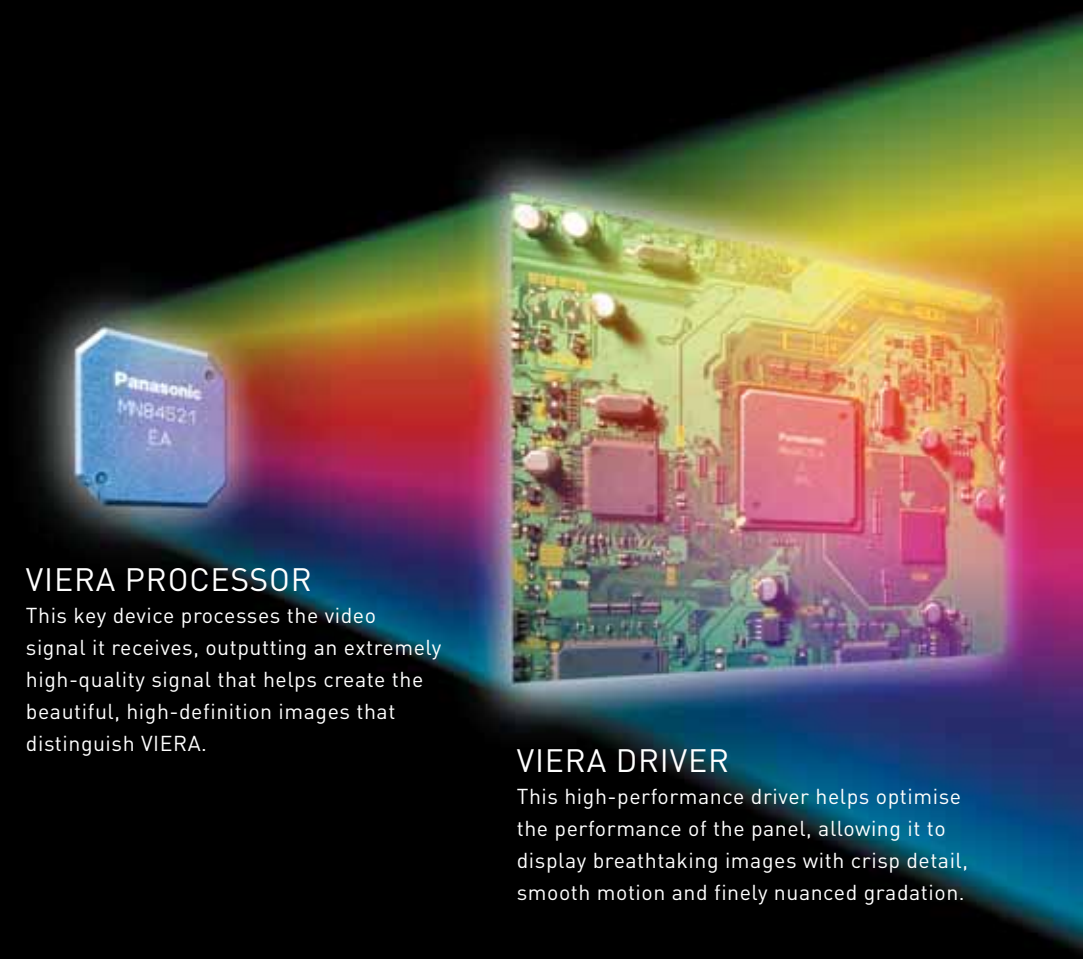


VIERA Plasma - Built for Speed
Panasonic
TOYOTA
EMC
ENSO
intel
ESSO
TOYOTA

VIERA Technical Concept

Rich, Expressive Images Reproduced by VIERA Black Box Technologies

Viera Black Box is the collective name for original technologies developed by Panasonic to enhance total image quality. From input to display, VIERA uses all-digital video signal processing to create crisp, vivid, smooth images with true, rich blacks – images that are both visually appealing and capable of delivering tremendous emotional impact. Panasonic's commitment to achieving the ultimate in picture quality is reflected in the fact that all key devices in VIERA - from processor to driver to panel - are produced totally in-house.



VIERA PROCESSOR

This key device processes the video signal it receives, outputting an extremely high-quality signal that helps create the beautiful, high-definition images that distinguish VIERA.

VIERA DRIVER

This high-performance driver helps optimise the performance of the panel, allowing it to display breathtaking images with crisp detail, smooth motion and finely nuanced gradation.

New Amagasaki Plant Opens as World Demand Continues to Climb

Panasonic's new Amagasaki Plant began operation on September 16, 2005, giving the company a new base for manufacturing plasma display panels. The new plant boasts the world's largest PDP production capacity and is slated to produce more than five million PDPs in 2006. The Amagasaki Plant is a key part of Panasonic's response to the fast-growing worldwide demand for thin, large-screen PDP units.

VIERA PANEL

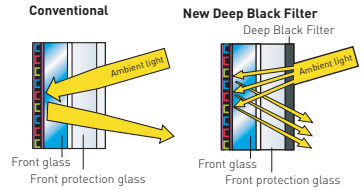
The VIERA panel clearly and vividly displays the video signal after it is processed by the VIERA processor and driver. It produces deep, rich blacks and sharp, beautiful images with vivid colors even when viewing in bright light.

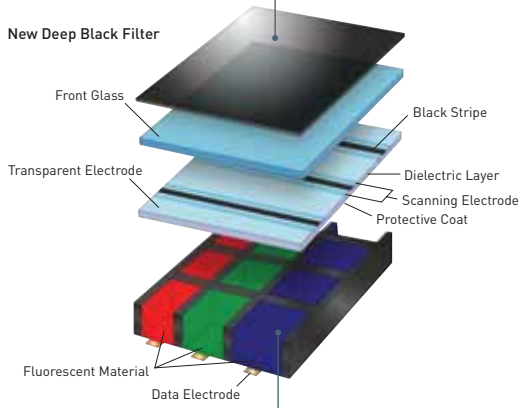
Excellent Brightness

VIERA Panel

Higher efficiency is achieved by improving panel materials and enhancing the rib and electrode shapes. And stable, high-speed discharge is achieved to cope with the finely controlled discharge light intensity. These features combine to increase brightness.

New Deep Black Filter:
We reduced this filter's light transmittance, so you can enjoy clean, beautiful images with deeper, richer blacks. We also applied an original Panasonic anti-glare process to the filter surface, to suppress external glare and reflection.





High-Performance, Environment-Friendly Panel
Panasonic has totally revamped all major components. The phosphors and other panel materials have been upgraded; the ribs and electrodes have been redesigned with new shapes; and the type of gas has been improved. The result is a clear, crisp picture that provides easy, comfortable viewing even in a bright living room.
Panasonic is also committed to preserving the environment.

VIERA Plasma Display Technology

Choose VIERA for Watching Movies

This chip-set processes the full-HD video signal in its original condition, without down-conversion

1080p Digital Processing Chip-Set

The full-HD video signal allows the reproduction of highly expressive images with exceptional detail.

Up-converting various video signals into signals with higher image quality

1080p Digital Re-mastering Processor

This processor up-converts a variety of video signals, such as those from analogue broadcasts and DVD movies, to provide a level of image quality that approaches full-HD. The resulting images have sharper details and more life-like realism.

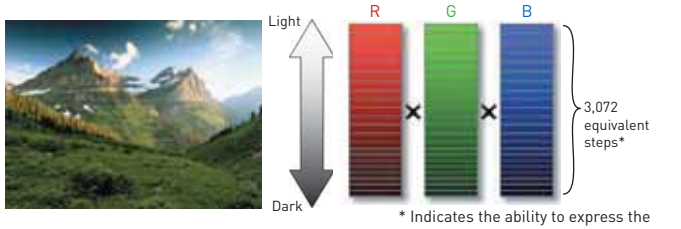
Standard-definition

Re-mastering

A total of 3,072 equivalent steps of gradation for finely nuanced images

Real Gamma Control

16-bit video processing makes it possible to reproduce images with 3,072 equivalent steps of gradation. The picture noise and black blocking that occur with insufficient gradation is suppressed even in scenes with intricate detail, fine textures and subtle expressions. Even the most detailed parts of an image are rendered with beautiful smoothness.



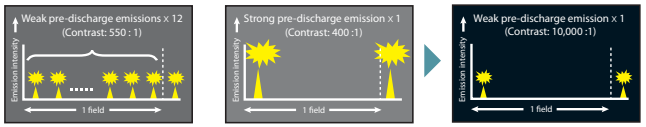
* Indicates the ability to express the equivalent of 3,072 steps of gradation.

10,000:1 contrast provides crisp images with superb depth

Real Black Creation

Two original Panasonic technologies, the Real Black Drive System and New Deep Black Filter, help achieve exceptionally deep, rich blacks and 10,000:1 contrast in dark image areas.

Real Black Drive System:
This system suppresses unwanted graying by reducing the electrical pre-discharge level to about 10% the level of conventional plasma TVs.



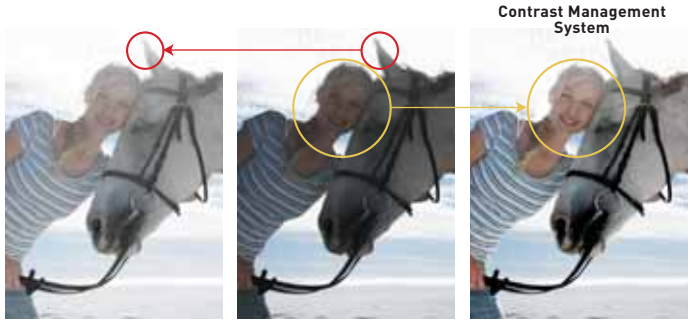
Conventional — Real Black Drive System

Conventional — Real Black Drive System

VIERA achieves superior expressive detail by applying optimal processing to each scene individually

Contrast Management System

Original Panasonic technology optimises the contrast by matching it to the images in each scene. Instead of losing gradation by making part of the image too bright or too dark, this new technology applies just the right amount of contrast correction for each part of the scene. The result brings natural beauty to all parts of the scene.



Enhancing dark areas washes out the highlights.

Brightens the subject without changing the background.

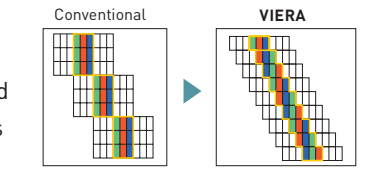
Colours are reproduced in all their natural vibrancy and beauty

Advanced 3D Colour Management

The Colour Management System achieves precise control based on 3D management in the colour difference plane and brightness directions. This finer level of control produces more expressive images.

VIERA delivers smooth diagonal lines and sharp, crisp images in scenes with fine detail

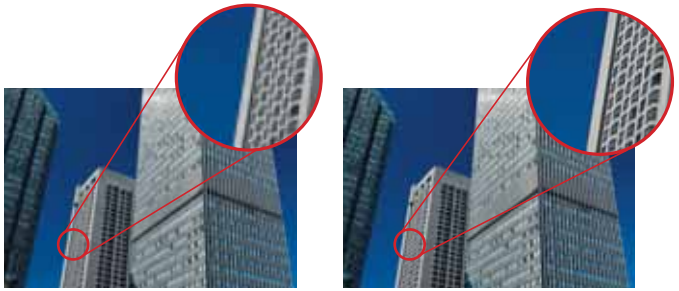
Sub-Pixel Controller



The R, G and B dots are processed as one pixel.

The R, G and B colors are processed dot-by-dot.

The Sub-Pixel Controller eliminates jagged or blurred diagonal lines and produces smoother edges. Unlike conventional systems in which the three RGB colors are processed together, this advanced system processes each colour separately for crisper, more natural-looking images.

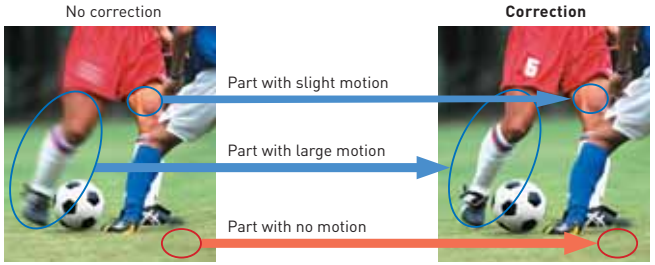


No correction — Correction

Even scenes with fast motion are clear and have excellent tonal expression

Motion Pattern Noise Reduction

The Motion Pattern Noise Reduction circuit detects motion patterns that tend to generate noise, and makes adjustments to maximise image quality. It helps produce clean, sharp images with outstanding gradation, even in scenes with considerable motion. The result is a noticeable improvement in moving picture quality.



VIERA finely divides each scene into numerous parts, then detects the motion in each part and applies noise reduction where required.

VIERA LCD Technology

VIERA. Entertainment that Goes a Step Beyond.

In scenes with dark images, VIERA reproduces crisp, deep blacks without over-emphasising the whites

LCD AI

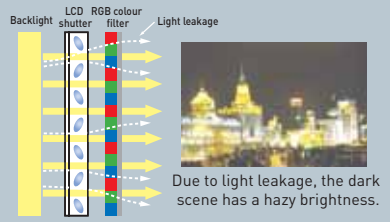
Featuring the Active Light Control and Active Contrast systems, the LCD AI technology improves picture brightness, deepens blacks and increases gradation. It boosts dynamic range (from black to white peak) by more than 2.0 times compared to the previous range. For all types of images, this technology also optimally matches the picture-enhancing process to the characteristics of the LCD device. You see rich, natural colours with superior gradation, even in images where blacks tend to appear splotchy on other televisions.

Dynamic Contrast

Active Light Control

Bright scenes are sharper and easier to see. Dark scenes benefit from deeper, crisper blacks. This circuitry automatically detects the input signal brightness level and adjusts the backlight accordingly in real-time. This is a dramatic improvement over conventional LCD TVs, which often suffer from insufficient maximum brightness and a lack of depth due to weak black reproduction. Active Light Control expands the dynamic range to more than 2.0 times the previous range. What's more, C.A.T.S. (Contrast Automatic Tracking System) automatically senses the ambient light conditions and adjusts the screen easier to see by brightening it when the room light is bright, and darkening it when the room light is dark.

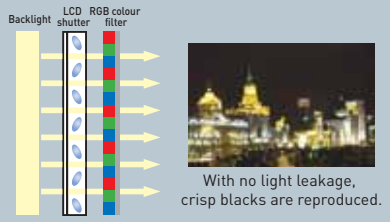
Conventional backlight control



Due to light leakage, the dark scene has a hazy brightness.

The brightness of the backlight is uniform.

Active Light Control



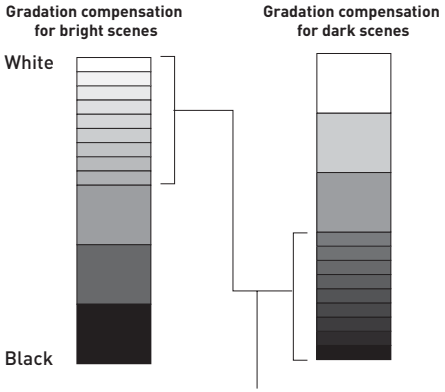
With no light leakage, crisp blacks are reproduced.

The backlight brightness is lowered.

Greater Detail, Depth and Realism

Active Contrast

This circuitry improves detail in both darker and brighter parts of the image, achieving a crisper, clearer picture. Active Contrast detects the input signal brightness level and increases contrast by dynamically extending the output luminance signal. The result is greater detail, depth and realism than ever before.



Equivalent to 1,024 shades in luminance areas with the most image elements

Sharp gradation in white areas

Fine nuancing between blacks are clearly expressed

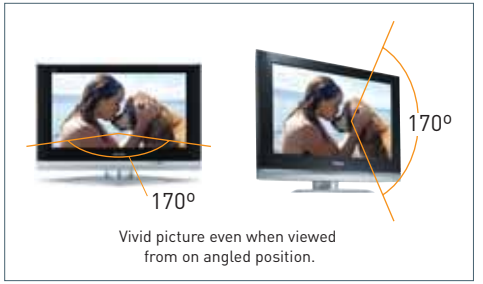
True high-definition images

HD (High-Definition) Panel

Boasting a HD panel with over a million pixels, (1,366 x 768) the LX60 Series relays all the detailed beauty of high-definition images. All VIERA LCD models also offer a wide vertical/horizontal viewing angle to provide vivid, beautiful images from virtually any angle.

SD Panel

HD Panel



Vivid picture even when viewed from on angled position.

Quick 8-msec* Motion Picture Response

Overdrive System

Panasonic's original Overdrive System suppresses afterimages and colour shifts, making even fast-action sports scenes clear and easy to view. In the LX60 series, this advanced technology helps achieve a super-fast 8-msec* response with moving pictures.

Conventional

Overdrive System

*Grey to Grey

VIERA Design

Form that Goes Well Beyond Function

The new VIERA combines a gracious form that matches virtually any room decor with the compactness of the world's thinnest profile. This compact body reflects the "melding screen" design concept, which conceals the border between images and their surrounding space.

One of the world`s narrowest in its class

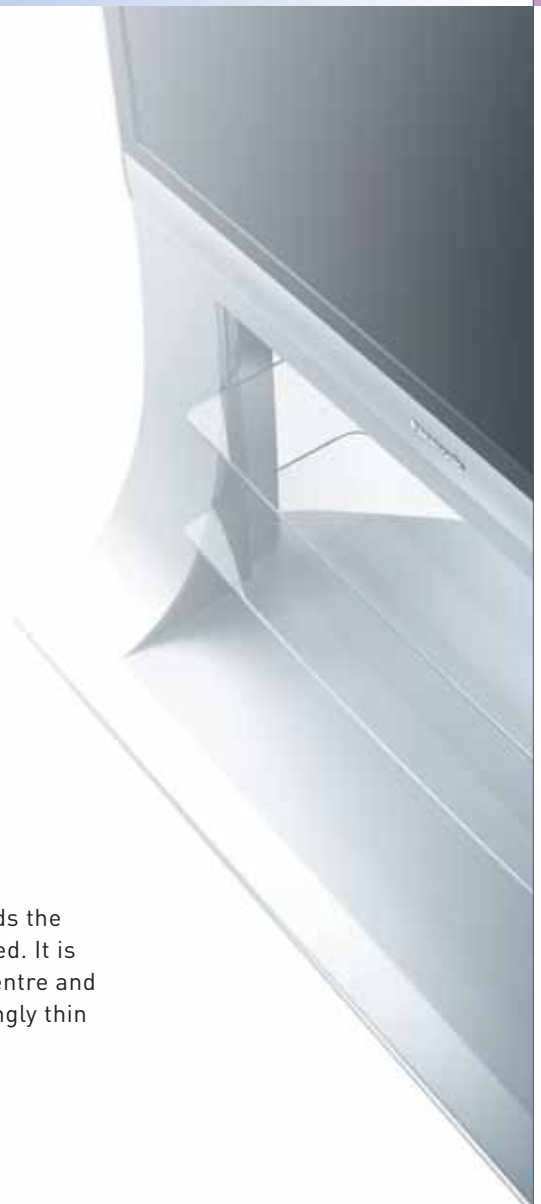
Slim, Compact Design

A compact design with a 1,210-mm (TH-50PV60A) profile that's among the world's slimmest for this screen size. Panasonic's pursuit of aesthetics has achieved this super-slim body without sacrificing its graceful design. Delight in the large-screen imagery of this beautifully shaped display.

TH-50PV60

Gradated Bezel

The bezel that surrounds the screen is subtly gradated. It is thicker at the screen centre and then becomes increasingly thin as it proceeds outward.



VIERA Sound

Beyond Conventional Audio Performance

To give you the most dynamic entertainment possible, the new VIERA complements the breathtaking pictures with a truly superb sound. Panasonic is committed to equipping our flat panel televisions with sound systems that deliver audio performances worthy of the remarkable image quality.

A new speaker with crystal-clear sound quality

2-Way Full Range Speaker

The speakers used in the 60 series combine excellent sound quality with a compact size. They also allow the listener to adjust the equalisation to provide the best possible sound quality for TV dialogues. Wide-ranging bass and mid-range response also produce superb sound quality for musical enjoyment. The under speaker design positions the speaker units below the screen, to give the TV a slim width and compact dimensions overall.

VIERA Usability

Beyond Considerate

In the VIERA audio system, we have achieved a level of sound quality worthy of VIERA's superlative images. The brilliance and clarity of VIERA's sound reflects the expertise in acoustic technology that Panasonic has accumulated over many years in our continued pursuit of pure sound. And with its advanced thin PDP technology, VIERA also does away with the space limitations inherent to conventional large-screen displays.

A smart new way to enjoy the world of high-quality AV

HDAVI Control

Now you can enjoy the beautiful sounds and pictures of high-quality AV equipment without all the messy, unsightly cables. With HDMI, a single cable* carries the video, audio and control signals between two digital components. By using Panasonic HDAVI-Control compatible components, you can turn on the power for your entire home theatre with a single remote control button, and begin playback immediately.**

Operating your DVD recorder is easier and smarter too. You can use the same remote controller you use with your home theatre. When you select Play on the DVD recorder, VIERA's video input automatically switches itself for DVD playback.

- Easy Connection
- Simple Control
- Less Remotes

* Non-HDMI-compliant cables cannot be utilised. Panasonic HDMI Cables are highly recommended.
**Except LCD models

Panasonic VIERA boasts a long service life of approximately 60,000 hours*

Long Service Life

By making the panel glass thinner, we were able to increase the light transmission to create a brighter picture with less power. We're also proud to have achieved a VIERA Plasma & LCD lifetime of about 60,000 hours.

* The time until panel brightness is reduced to half its initial level. However, this time varies depending on the content of the images displayed and the usage environment.
(The service life given above is intended as a guideline when displaying standard moving images.)

VIERA Networking

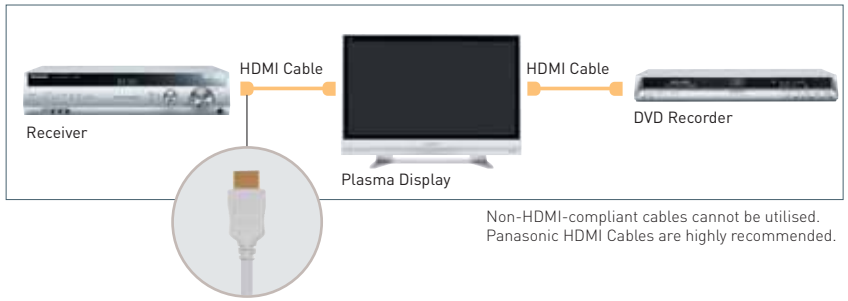
Go Beyond Conventional Networking Limits

As Panasonic's AV networking capabilities continue to evolve, VIERA is moving closer to serving as the centre of an integrated, home-wide entertainment and system. With its connection flexibility, Panasonic networking is uncovering exciting new possibilities in entertainment, communication and creative expression. Let VIERA help you enjoy greater expressive freedom, closer personal communication, and a more rewarding lifestyle.

HDMI (High-Definition Multimedia Interface) is paving the way to a more advanced and connected AV world

Double HDMI Terminals

HDMI is a standard developed for use in connecting different types of digital video and audio components. Equipment with HDMI terminals can be connected to each other with a single cable, letting you enjoy superior digital picture and sound quality without a lot of cables cluttering the area. Equipped with two of these next-generation terminals, VIERA is ready to be part of an expanding home AV system.



Non-HDMI-compliant cables cannot be utilised.
Panasonic HDMI Cables are highly recommended.

Enjoy large-screen Internet surfing

PC Input

Equipped with a PC (RGB H+V) signal input terminal, VIERA Plasma TV can be connected with a personal computer to serve as a large-screen monitor for surfing the Internet. The D-sub 15-pin RGB terminal is set on the back panel for easy connection of a laptop PC.

Lifestyles with VIERA

Age, family makeup, way of thinking and taste in interior design, as well as the environment and era, are factors that result in an infinite variety of lifestyles. And it's through these lifestyles that people find enjoyment and relaxation while entertaining family and friends.

With VIERA, Panasonic's goal is to provide enjoyment, relaxation and entertainment of even higher quality.

Delivering enjoyment, relaxation and entertainment to match moments in life – that's what VIERA is all about.

The speakers shown here are not available in Australia

VIERA

Relaxing with VIERA

In your own room, VIERA lets you enjoy images you've recorded to your heart's content.

Drift off to sleep to the sounds and images of a Caribbean beach with VIERA in your bedroom.

Hospitality with VIERA

Change the visuals in the hallway to match your mood.

Enjoy a meal with guests in the dining room with the added pleasure of some casual background video.

Vary the visuals at the entrance to suit your guests.

A stylish LCD Display in the guest room adds a final touch of enjoyment to the day.

VIERA Plasma Televisions

PV60 Series

TH-50PV60/42PV60

Viera Black Box Technology for Ultimate Picture Quality
- 1080p Digital Processing Chip-Set
- 1080p Digital Re-mastering Processor
- 3,072 Equivalent Steps of Gradation
- 10,000 : 1 Contrast Ratio
- Contrast Management System
- Advanced 3D Colour Management
- Motion Pattern Noise Reduction
- Sub-Pixel Controller

Other Features
- HDAVI Control*
- Slim & Compact Design
- 2-Way 2-Speaker System
- 2 x HDMI Input/1 x PC Input

PA60 Series

TH-42PA60

Viera Black Box Technology for Ultimate Picture Quality
- 1080p Digital Processing Chip-Set
- 1080p Digital Re-mastering Processor
- 3,072 Equivalent Steps of Gradation
- 10,000 : 1 Contrast Ratio
- Contrast Management System
- Advanced 3D Colour Management
- Motion Pattern Noise Reduction
- Sub-Pixel Controller

Other Features
- HDAVI Control*
- Slim & Compact Design
- 2-Way 2-Speaker System
- 1 x HDMI Input

*This feature available when connected to Panasonic HDAVI-Control Compatible products.

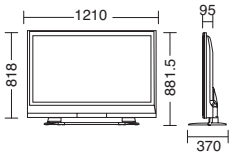
PDP Specifications

2006 Plasma Television

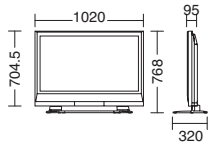
		TH-50PV60A	TH-42PV60A	TH-42PA60A
TV Tuner	PAL Tuner Integrated	Y	Y	Y
	Tuning System	PLL synthesizer 100-position auto-search tuner		PLL synthesizer 100-position auto-search tuner
	CATV Compatibility	Hyper-band		Hyper-band
	Broadcast Stereo Reception	NICAM -B, G, I, German (A2)		NICAM -B, G, I, German (A2)
	Teletext Reception	2000P Level 2.5, FASTEXT/LIST/TOP		2000P Level 2.5, FASTEXT/LIST/TOP
	Receiving System	World 17-System		World 17-System
Picture	Screen Size	50" (127 cm) diagonal	42" (106 cm) diagonal	42" (106 cm) diagonal
	Screen Aspect	16 : 9 Wide		16 : 9 Wide
	Panel	G9 Progressive HD Plasma Panel		G9 Progressive Plasma Panel
	Progressive Scan	Y	Y	Y
	Number of Pixels	1,049,088 (1366 x 768) pixels	786,432 (1,024 x 768) pixels	408,960 (852 x 480) pixels
	Colour System	NTSC/PAL/PAL 60Hz/M-NTSC		NTSC/PAL/PAL 60Hz/M-NTSC
	Applicable PC signals	XGA (SXGA compressed)		—
	Applicable Scanning Format	525(480)/60i,525(480)/60p,625(576)/50i,625(576)/50p,750(720)/50p, 750(720)/60p,1125(1080)/50i,1125(1080)/60i		525(480)/60i,525(480)/60p,625(576)/50i,625(576)/50p, 750(720)/50p,750(720)/60p,1125(1080)/50i,1125(1080)/60i
	Displayable Colours	Max. 29 billion equivalent colours for darker part		Max. 29 billion equivalent colours for darker part
	Contrast Ratio (in dark surroundings)	10,000:1		10,000:1
	3D Colour Management	Y	Y	Y
	Sub Pixel Control	Y	Y	Y
	MACH Enhancer	Y	Y	Y
	Motion Pattern Noise Reduction	Y	Y	Y
	C.A.T.S. (Contrast Automatic Tracking System)	Y	Y	—
	Video Noise Reduction	Y	Y	Y
	3D Comb Filter	Y	Y	Y
	Picture Mode	Standard/Dynamic/Cinema		Standard/Dynamic/Cinema
Sound	Speakers	Full-Range x 2		Full-Range x 2
	Audio Output	20 W (10 W x 2), 10% THD		20 W (10 W x 2), 10% THD
	Sound Mode	Music/News/Cinema		Music/News/Cinema
	Surround	Y	Y	Y
Terminals	HDMI Input	2	2	1
	Composite Video Input	AV1/2/3/4: RCA phono type (3 rear, 1 front)		AV1/2/3: RCA phono type (3 rear)
	S-Video Input	AV1/4: Mini DIN 4-pin (1 rear, 1 front)		AV1: Mini DIN 4-pin (rear)
	Audio Input (for Video)	AV1/2/3/4: RCA phono type connectors [L, R] (3 sets rear, 1 front)		AV1/2/3: RCA phono type connectors [L, R] (3 sets rear)
	PC Input	Mini D-sub 15-pin x 1 (rear)		—
	Component Video Input	AV2/3: RCA phono type [Y , PB/CB, PR/CR] (2 sets rear)		AV2/3: RCA phono type [Y , PB/CB, PR/CR] (2 sets rear)
	Audio Input (for HDMI, PC)	RCA phono type connectors (L, R) (1 set, rear)		RCA phono type connectors (L, R) (1 set, rear)
	Monitor Out	RCA phono type (1 rear)		RCA phono type (1 rear)
	Audio Output	RCA phono type connectors (L, R) (1 set rear), Headphone jack (1 front)		RCA phono type connectors (L, R) (2 set rear)
Features	Screen Saver	Side Panel Adjustment		Side Panel Adjustment
	Multi Window	PAT		PAT
	Aspect Controls	16:9/Just/4:3/Zoom1/Zoom2/Zoom3		16:9/Just/4:3/Zoom1/Zoom2/Zoom3
	On-Screen Display Languages	English		English
	Off Timer	Y	Y	Y
	Child Lock	Y	Y	Y
General	Power Supply	AC 220 - 240 V, 50/60Hz		AC 220 - 240 V, 50/60Hz
	Power Consumption (Max Use)	460W	350W	315W
	(Standby)	0.3W	0.3W	0.3W
	Dimensions (W x H x D)	1,210 x 818 x 95 mm	1,020 x 704.5 x 95 mm	1,068 x 701 x 97 mm
	Weight	40.0 Kg NET	30.0 Kg NET	33.0 Kg NET
	Operating Temperature	0°C - 40°C		0°C - 40°C
	Operating Humidity	20% - 80% (Non condensation)		20% - 80% (Non condensation)

Dimensions (Unit: mm)

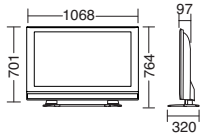
TH-50PV60A



TH-42PV60A



TH-42PA60A



Optional Accessories

Pedestal

TY-ST50P60W
Weight: 2.3 kg
for TH-50PV60A

TY-ST42P60W
Weight: 2.1 kg
for TH-42PV60A

TY-ST42PX5W
Weight: 1.9 kg
for 42PA60A

Wall-Hanging Bracket

TY-WK42PV3W [vertical]
Dimensions (W x H x D)/ Weight:
775 x 415 x 65 mm / 6.3 kg
for TH-50PV60A/TH-42PV60A/TH-42PA60A

TY-WK42PR2W [angled]
Dimensions (W x H x D)/ Weight:
930 x 490 x 129 mm / 10.3 kg
for TH-50PV60A/TH-42PV60A/TH-42PA60A

Pixel Statement - Plasma TV

An image on a Plasma TV is created by many small dots known as pixels (this is similar to the image in a newspaper). The more pixels on the panel the more detailed image can be displayed. For example, the TH-50PV60A contains 768 rows of 1,366 pixels in each row; which gives a total of just over one million pixels.
To create a colour image each pixel is made up of three tiny coloured dots, one each of red, green and blue. This gives a total in excess of three million individual dots manufactured into the panel. Each one of these dots is precisely controlled by the electronics of the TV to produce the picture.
Whilst Panasonic maintains the highest standards in manufacturing technology and processes in the construction of these panels, there are a number of allowable Pixel/Dot failures that would still allow the panel to be defined as a good panel. It is not possible to guarantee absolutely no pixel loss.

VIERA LCD Televisions

LX60 Series

TX-32LX60/26LX60/23LX60

Viera Black Box LCD Technology for Ultimate Picture Quality
- Advanced LCD AI for Real Black Expression
- 1,200 : 1 Contrast Ratio
- New Processor
- New Driver
- Active Light Control
- Contrast Automatic Tracking System

Other Features
- HDAVI Control*
- Slim & Compact Design
- 2 x HDMI Input

* This feature is available when connected to Panasonic HDAVI-Control Compatible DVD Recorders.

LA6 Series

TX-20LA6

Viera Black Box LCD Technology for Ultimate Picture Quality
- 350 : 1 Contrast Ratio
- New Processor
- New Driver
- Over-Drive System

Other Features
- Slim & Compact Design
- PC Input

LCD Specifications

2006 LCD Televisions

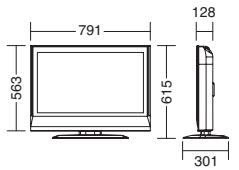
		TX-32LX60A	TX-26LX60A	TX-23LX60A	TX-20LA6
TV Tuner	PAL Tuner Integrated	Y	Y	Y	Y
	Tuning System	PLL synthesizer 100-position auto-search tuner			PLL synthesizer 100-position auto-search tuner
	CATV Compatibility	Hyper-band			Hyper-band
	Broadcast Stereo Reception	NICAM -B, G, I, German (A2)	NICAM -B, G, I, German (A2)	NICAM -B, G, I, German (A2)	NICAM -B, G, I, German (A2)
	Teletext Reception	TOP/FASTEXT Level 1.5	TOP/FASTEXT Level 1.5	TOP/FASTEXT Level 1.5	TOP/FAST TEXT Level 1.5 (8P)
	Receiving System	World 17-System	World 17-System	World 17-System	World 17-System
Display	Screen Size	32" (80.0 cm) diagonal	26" (66.1 cm) diagonal	23" (58.3 cm) diagonal	20" (50.8 cm) diagonal
	Screen Aspect	16 : 9 Wide			4 : 3
	Panel	WXGA LCD Panel			VGA LCD Panel
	Progressive Scan	Y	Y	Y	Y
	Number of Pixels	1,049,088 (1,366 x 768) pixels	1,049,088 (1,366 x 768) pixels	1,049,088 (1,366 x 768) pixels	307,200 (640 x 480) pixels
	Applicable Scanning Format	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 1125 (1080)/50i			480i/480p
	Contrast Ratio (panel)	1200 : 1	1200 : 1	1200 : 1	350 : 1
	LCD AI	LCD AI	LCD AI	LCD AI	—
	C.A.T.S. (Contrast Automatic Tracking System)	Y	Y	Y	—
	Video Noise Reduction	Y	Y	Y	—
	Picture Mode	Dynamic/Normal/Cinema/Auto			Dynamic/Normal/Cinema/User
Sound	Speakers	1-way, 2-speakers			1-way, 2-speakers
	Audio Output	20 W (10 W x 2)		6 W (3 W x 2)	6 W (3 W x 2)
	Sound Mode	Music/News/Cinema			Standard/Dynamic/Music/User
	Surround	Y	Y	Y	Y
Terminals	HDMI Input	2	2	2	—
	Composite Video Input	AV1/2/3: RCA phono type (2 rear, 1 side)		AV1/2: RCA phono type (2 rear)	AV1/2: RCA phono type (2 rear)
	S-Video Input	AV1/3: Mini DIN 4-pin (1 rear, 1 side)		AV1: Mini DIN 4-pin (1 rear)	AV1: Mini DIN 4-pin (1 rear)
	Audio Input (for Video)	AV1/2/3: RCA phono type connectors [L, R] (2 sets rear, 1 side)		AV1/2: RCA phono type connectors [L, R] (2 sets rear)	AV1/2: RCA phono type connectors [L, R] (2 sets rear)
	PC Input	—	—	—	Mini D-sub 15-pin x 1
	Component Video Input	AV3: RCA phono type [Y, PB, PR] (1 set rear)	AV2: RCA phono type [Y, PB, PR] (1 set rear)		AV2: RCA phono type [Y, PB, PR] (1 set rear)
	Audio Input	RCA phono type connectors (L, R) (1 set rear) [for HDMI]			Y [for PC]
	Monitor Out	RCA phono type (1 rear)			—
	Audio Output	RCA phono type connectors (L, R) (1 set rear), Headphone jack (1 side)			Headphone jack (1 front)
Features	Multi Window	PAT			—
	Aspect Controls	16:9/Just/4:3/Zoom1/Zoom2/Zoom3			4 : 3
	On-Screen Display Languages	English			English
	Off Timer	Y	Y	Y	Y
General	Power Supply	AC 110 - 240 V, 50/60Hz			AC 110-240 V, 50/60Hz
	Power Consumption (Normal Use)	168 W	109 W	102 W	65 W
	(Standby)	0.9 W	0.9 W	0.9 W	under 1 W
	Dimensions (W x H x D) (with TV stand)	791 x 615 x 300 mm	657 x 525 x 300 mm	565 x 453 x 260 mm	498 x 484 x 260 mm
	Dimensions (W x H x D) (w/o TV stand)	791 x 563 x 128 mm	657 x 473 x 128 mm	565 x 411 x 119 mm	498 x 443 x 137 mm
	Weight (with TV stand)	19.0 kg	15.0 kg	10.0 kg	9.3 kg
	Swivel Angle	20-degrees			20-degrees
	Tilt Angle	—	—	5-degree/10-degree	5-degree/10-degree
	VESA Standard	Y	Y	Y	Y
	Operating Temperature	5°C - 35°C			5°C - 35°C
	Operating Humidity	5% - 90% (Non condensation)			5% - 90% (Non condensation)

Pixel Statement - LCD TV

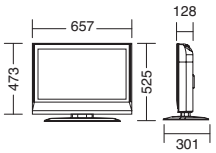
An image on a LCD TV is created by many small dots known as pixels (this is similar to the image in a newspaper). The more pixels on the panel the more detailed image can be displayed. For example, the TX-32LX60A contains 768 rows of 1,366 pixels in each row; which gives a total of just over one million pixels. To create a colour image each pixel is made up of three tiny coloured dots, one each of red, green and blue. This gives a total in excess of three million individual dots manufactured into the panel. Each one of these dots is precisely controlled by the electronics of the TV to produce the picture. Whilst Panasonic maintains the highest standards in manufacturing technology and processes in the construction of these panels, there are a number of allowable Pixel/Dot failures that would still allow the panel to be defined as a good panel. It is not possible to guarantee absolutely no pixel loss.

Dimensions (Unit: mm)

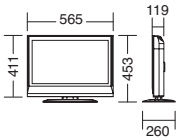
TX-32LX60



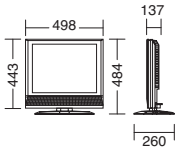
TX-26LX60



TX-23LX60



TX-20LA6



Optional Accessories

Wall-Hanging Bracket

TY-WK32LR2W
Dimensions (W x H x D)/ Weight:
480 x 325 x 42 mm / 3.5 kg
for TX-32LX60A
TX-26LX60A

TY-WK23LR2W
Dimensions (W x H x D)/ Weight:
124 x 114 x 60 mm / 0.6 kg
for TX-23LX60A
TX-20LA6A

Panasonic HDMI Cables

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE

1.5m	3m	5m	7m	10m
RP-CDHG15	RP-CDHG30	RP-CDHG50	RP-CDHG70	RP-CDHG100

Panasonic HDMI cables are highly recommended.Some HDMI cables are not authorised by HDMI Licensing, LLC. and they do not comply with HDMI specifications.

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